MICRO MOTION ELITE CORIOLIS
MASS AND DENSITY FLOWMETERS

The Coriolis Flowmeter You’ve Trusted
for Over 35 Years
Unparalleled Measurement Confidence

The ELITE family of Coriolis flowmeters has unmatched functionality, line size breadth, accuracy, and turndown range. Designed for immunity to external effects, ELITE Coriolis meters deliver accurate measurements even in challenging fluid conditions or environments.

Ultimate Performance

- Industry-leading liquid (± 0.05%) & gas (± 0.25%) mass flow accuracy
- Multi-variable capability for simultaneous high accuracy mass, density, volume, and temperature measurement
- Widest flow range capability with 100:1 turndown
- Most reliable flow measurement performance, particularly in challenging applications such as two-phase flow
- Designed for immunity to process, mounting and environmental effects

Best Fit-for-Application

- The ELITE product family can fit your needs with the widest range of line sizes; ranging from 1/12-inch (DN1) to 12-inch (DN300)
- Multiple wetted materials and configurations enable the widest temperature ranges -400°F to 662°F (-240°C to 350°C) and high pressures up to 6000 psig (414 barg)
- Flexible and fast communication protocols that can easily integrate with your process

Superior Measurement Confidence

- Our Smart Meter Verification process delivers measurement integrity assurance real-time and in process
- World-class calibration and testing facilities deliver an accurate measurement straight out of the box
- Global application experts and technicians to work with you 24/7 through your most difficult process challenges
- Dedicated design and process engineers deliver unmatched Coriolis expertise
**Smart Meter Verification**
Delivers absolute confidence in measurement integrity and performance with our patented methodology for meter verification in-line and on demand.

**Multi-Variable**
Provides precision measurement for a range of variables including mass flow, volume flow, flow totals, density, concentration and temperature giving you more insight into your process.

**Two-Phase Flow**
Ultimate two-phase flow performance delivers reliable measurement for any application, including entrained air, slurry, or emulsion.

**Fit-for-Purpose**
With the widest flow range of .01 lb/min (0.35 kg/hr) to 120,000 lb/min (3,266,000 kg/hr), the Micro Motion ELITE Coriolis flowmeters cover the widest breadth of applications for your flow measurement needs.
MEETING YOUR INDUSTRY NEEDS

Oil and Gas
• Assured liquid or gas measurement accuracy with both industry standards (e.g., API, AGA) and custody transfer approvals (e.g., MID, NTEP, Measurement Canada)
• No moving parts means no scheduled maintenance, no mechanical wear, no meter factor drift, and no debris damage or plugging
• Proprietary petroleum software, compliant with API 11.1 and API 11.2.4, delivers mass, gross volume, corrected net volume, and API gravity at both process and reference conditions

Chemical
• Improve plant-wide mass balance with unparalleled mass flow rate accuracy
• Simplify greenhouse gas monitoring compliance with Smart Meter Verification
• Extend proof test intervals for SIS and simplify compliance for Green House Gas measurement with Smart Meter Verification

Food and Beverage
• Most accurate in-line density and concentration measurement solution delivers reliable product quality
• Eliminate costly downtime and maintenance inherent with alternative flow technologies
• Reliable batching solutions eliminate volumetric variation caused by changes in ingredients, temperature, or density

Power
• Provide accurate and reliable flow & density measurements to facilitate cost effective environmental compliance
• Superior accuracy and turndown reduce uncertainty in plant or unit performance testing
• SMART, multivariable instrumentation enables greater operational flexibility
• Certified fiscal custody transfer meters allow better resource accountability

Marine
• High accuracy over a wide range of flow rates to meet your fuel transfer needs
• Measurement robustness during loading and unloading, even in the presence of entrained gas
• Compatible with all marine fuel types: HFO, MGO, MDO and LNG
• OIML/MID compliance allows for traceability and confidence in your fuel bunkering measurement

Life Sciences
• Accuracy in real-world conditions delivers measurement confidence for critical process control
• Reliable “empty-full-empty” performance for repeatable batch operations
• On-site metrology solutions and Smart Meter Verification provide simplified calibration and validation
YOUR SOLUTION FOR THE MOST DEMANDING PROCESS APPLICATIONS

MICRO MOTION

For over 35 years, Emerson’s Micro Motion has been a technology leader delivering the most precise flow, density and concentration measurement devices for fiscal applications, process control and process monitoring. Our passion for solving flow and density measurement challenges is proven through unbeatable accuracy and performance of our devices.
**Emerson’s Flow Lifecycle Services** can help you get the most out of your flow meter and process:

- Workforce training by industry leading experts
- Certified Field Service personnel provide in-person startup, configuration, and diagnostic support
- 24x7 technical support team
- Local service centers deliver quick response and nearby support

**ELITE Product Family**

<table>
<thead>
<tr>
<th>CMFS Series</th>
<th>CMF Series</th>
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<tbody>
<tr>
<td>1/12 inch DN1</td>
<td>1/2 inch DN15</td>
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<tr>
<td>1 inch DN25</td>
<td>3 inch DN80</td>
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<tr>
<td>6 inch DN150</td>
<td>8 inch DN200</td>
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<tr>
<td>12 inch DN300</td>
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For more information, please visit: [www.MicroMotion.com/ELITE](http://www.MicroMotion.com/ELITE)

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